Bruhat Bangalore Mahanagara Palike
Executive Engineer Byatarayanapura Division

Modified Estimate For Improvements To Footpaths In Cross Roads of Kempapura In Ward No-10

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Removing and resetting of Footpath Slab (Approved Rate)								
	Coefee Board Layout								
						0.00			
	Approved Amount		100.00			**0.00**	**Sqm**	**104.00**	**0.00**
2	**Earth work excavation by manual means** for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete as per specifications and directions of the Engineer in charge.(V-1 No-1.4.1 P No-5 of PWD BCSR 2021-22)								
	Coefee Board Layout								
	RCC Drain Desilt								
	13th Main Rd	1	286.80	0.60	0.91	156.68			
	RCC Drain								
	Coefee Board Layout Park	1	165.00	1.10	1.10	199.65			
						356.33	**Cum**		
				Upto 125 %		**225.00**	**Cum**	**120.00**	**27,000.00**
				Above 125 %		**131.33**	**Cum**	**120.00**	**15,759.46**
	Approved Amount		120.00						
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)**Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates** (V-I No-2.1.4,P No-15 of PWD BCSR 2021-22)								
	Coefee Board Layout								
	13th Main Rd								
	Bed Concrete For Drain	1	286.80	0.60	0.15	25.81			
	Bed Concrete For Pathway	1	286.80	0.60	0.15	25.81			
	Deduct Tree Guards	-26	0.50	0.60	0.15	-1.17			
						50.45	**Cum**		
				Upto 125 %		**30.00**	**Cum**	**5800.00**	**174000.00**
				Above 125 %		**20.45**	**Cum**	**5800.00**	**118633.20**
	Approved Amount		5800.00						
4	Removing And Resetting Of Kerb Stone[Approved Arrival Rate]								
	Coefee Board Layout								
	13th Main Rd	1	142.00			142.00			
						142.00	**M**	**100.00**	**14,200.00**
	Approved Amount		100.00						

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)**M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates** (V-I No-2.4.2,P No-17 of PWD BCSR 2021-22)								
	Coefee Board Layout Park								
	RCC Drain Raft	1	165.00	0.90	0.15	22.28			
	RCC Drain Wall	2	165.00	0.15	0.60	29.70			
						51.98	**Cum**	**6000.01**	**311850.52**
	Approved Amount		6000.01						
6	Supplying, Fitting and Placing un-coated T**MT bar Reinforcement** in sub-structure complete as per Drawing and Technical Specifications. Section 1600 & 2200 (V-III No-13.1P No-99 of PWD BCSR 2021-22)								
	For Rcc Drain 60kg/Cum	1	51.98	60.00		3118.50			
						3118.50	**Kg**		
						3.12	**Tn**	**95000.00**	**296257.50**
	Approved Amount		95000.00						
7	Providing And Fixing **Precast Covering Slab Made Out Of CC 1;2;4 With 10cm Thick** And Finishimg Cutting Including Form Work Curing Including Cost Of All Materials, Labour,Hire Charges Of Machinery,Loading,Unloading,Lead And Lift,Transportation Etc[Data Rate]								
	Precast Covering Slab								
	RCC Drain								
	Coefee Board Layout Park	1	165.00	0.90		148.50			
	Shoulder Drain	13	1.20	0.90		14.04			
		2	1.20	0.60		1.44			
	Drain Opening	10	0.60	0.90		5.40			
		8	1.20	0.90		8.64			
	Missing Slab	83	0.60	0.90		44.82			
						222.84	**Sqm**	**2000.00**	**445680.00**
	Approved Amount		2000.00						
8	Supplying and filling in plinth with sand under floors, foundation of Bridges including watering, ramming, consolidating and dressing complete.(V-1 No-1.11 P No-7 of PWD BCSR 2021-22)								
	Coefee Board Layout					**0.00**	**Cum**	**2000.00**	**0.00**
	Approved Amount		2000.00						
9	Providing and laying **heavy duty cobble stones 60mm thick** interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications (V-II No-9.31,P No-64 of PWD BCSR 2021-22)								

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Coefee Board Layout								
	13th Main Rd	1	286.80	1.50		430.20			
	Deduct								
	Shoulder Drain	-13	1.20	0.90		-14.04			
		-2	1.20	0.60		-1.44			
	Drain Opening	-10	0.60	0.90		-5.40			
		-8	1.20	0.90		-8.64			
	Deduct Tree Guards	-26	0.50	0.60		-13.00			
	Deduct old Cobble Stone					-89.60			
						298.08	**Sqm**	**971.90**	**289703.95**
	Approved Amount		971.90						
10	Supplying and fixing **M15 grade precast cement concrete 600 x 300 x 150 mm Kerb Stone** for Roadway, Sidewalls and gutters fixed with CM 1:3 fixed and finsihed in line as per direction of Engineer in charge. (V-III No-6.3,P No-146 of PWD BCSR 2021-22)								
	Coefee Board Layout								
		1	309.00			309.00			
						309.00	**M**	**350.00**	**108150.00**
	Approved Amount		350.00						
11	**Painting Two Coats** on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces. (V-III No-8.10,P No-56 of PWD BCSR 2021-22)								
	Coefee Board Layout	1	451.00		0.35	157.85			
						157.85	**Sqm**	**100.00**	**15,785.00**
	Approved Amount		100.00						
12	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3) (V-III Page No.3, Item No.1.1C of PWD SR 2021-22)								
	Qty frm Item No-2	1	356.33			356.33			
						356.33	**Cum**		
				Upto 125 %		**202.50**	**Cum**	**50.00**	**10,125.00**
				Above 125 %		**153.83**	**Cum**	**50.00**	**7,691.44**
	Approved Amount		50.00						
13	**Cost of Haulage Excluding Loading** and UnloadingTaking output 18 t load and lead 10 km = 180 t.km t(V-III Page No.3, Item No.1.4B of PWD SR 2021-22)								
	Qty frm Item No-2	1	356.33	1.28		456.10			
						456.10	**T.km**		
				Upto 125 %		**259.20**	**T.km**	**84.99**	**22,029.41**
				Above 125 %		**196.90**	**T.km**	**84.99**	**16,734.61**
	Approved Amount		84.99						
	EIRL								
E1	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-I No-2.1.3,P No-15 of PWD BCSR 2021-22) Issue Rate On 04-01-2023								
	Basic Rate	**5554.00**							
	Area Weightage 10%	555.40							
	Sub Total	6109.40							

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Below 19.20%	1173.00							
	Total Rate	4936.40							
	RCC Drain								
	Coefee Board Layout Park	1	165.00	1.10	0.15	27.23			
	Below Kerb Stone								
	Coefee Board Layout Park	1	165.00	0.20	0.10	3.30			
	13th Main Rd	1	286.80	0.20	0.10	5.74			
						36.26	Cum	4936.40	178998.63
								Total Construction Cost	2052598.72
								18% GST for Construction Cost	369467.77
								Grand Total	2422066.49

Assistant Engineer
Ward No-10
BBMP Bangalore

Asst. Executive Engineer
Kodigehalli Sub Division
BBMP Bangalore

Executive Engineer,
Byatarayanapura Division
BBMP Bangalore

Technical Sanction
Accorded For Rs. 24,22,966.49
Head of A/C P.3726
CER NO : 15 Dt. 24.04.23

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https://account.bbmpgov.in/vssIFMS/vss00CvHome.php

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